RAW SEQUENCE LISTING DATE: 05/30/2000 PATENT APPLICATION: US/08/908,867B TIME: 18:43:47

Input Set : A:\Pto.amc

Output Set: N:\CRF3\05262000\H908867B.raw

```
4 (1) GENERAL INFORMATION:
              (i) APPLICANT: YOUNG, ANDREW A.
      8
                             GEDULIN, BRONISLAVA
      9
                             BEELEY, NIGEL ROBERT ARNOLD
     10
                             PRICKETT, KATHRYN S.
            (ii) TITLE OF INVENTION: METHODS FOR REGULATING
                                       GASTROINTESTINAL MOTIITY
     14
           (iii) NUMBER OF SEQUENCES: 39
     17
             (iv) CORRESPONDENCE ADDRESS:
     20
                   (A) ADDRESSEE: LYON & LYON
(B) STREET: 633 WEST FIFTH STREET
     22
     23
                   (C) CITY: LOS ANGELES
     24
     25
                   (D) STATE: CALIFORNIA
                   (E) COUNTRY: USA
     26
                   (F) ZIP: 90017
             (V) COMPUTER READABLE FORM:
     32
                   (A) MEDIUM TYPE: Floppy disk
     33
                   (B) COMPUTER: IBM PC compatible
                   (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     34
                   (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
     35
C--> 38
            (vi) CURRENT APPLICATION DATA:
C--> 40
                   (A) APPLICATION NUMBER: US/08/908,867B
C--> 41
                   (B) FILING DATE: 08-Aug-1997
                   (C) CLASSIFICATION: Pending
     49
           (vii) PRIOR APPLICATION DATA:
     45
                   (A) APPLICATION NUMBER: 08/694,954
     47
                   (B) FILING DATE: 08-AUGUST-1996
     48
          (viii) ATTORNEY/AGENT INFORMATION:
     54
                   (A) NAME: BERKMAN, CHARLES S.
                   (B) REGISTRATION NUMBER: 38,077
     57
     58
                   (C) REFERENCE/DOCKET NUMBER: 227/166
            (ix) TELECOMMUNICATION INFORMATION:
                   (A) TELEPHONE: 619/552-2200
     64
                   (B) TELEFAX: 213/955-0440
                   (C) TELEX: 67-3510
     69 (2) INFORMATION FOR SEQ ID NO: 1:
             (i) SEQUENCE CHARACTERISTICS:
                   (A) LENGTH: 39 amino acids
(B) TYPE: amino acid
     73
                   (C) STRANDEDNESS: single
     75
                   (D) TOPOLOGY: linear
     78
             (ii) MOLECULE TYPE: peptide
             (ix) FEATURE:
     80
     82
                   (B) LOCATION: 39
     83
                   (D) OTHER INFORMATION: amidated Ser (Serineamide)
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
     87 His Ser Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
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DATE: 05/30/2000

TIME: 18:43:47

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Input Set : A:\Pto.amc
                Output Set: N:\CRF3\05262000\H908867B.raw
                                         10
90 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
               20
93 Ser Gly Ala Pro Pro Pro Ser
           35
94
98 (2) INFORMATION FOR SEQ ID NO: 2: 100 (i) SEQUENCE CHARACTERISTICS:
              (A) LENGTH: 39 amino acids(B) TYPE: amino acid
102
103
104
              (C) STRANDEDNESS: single
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              (D) TOPOLOGY: linear
        (ii) MOLECULE TYPE: peptide
107
        (ix) FEATURE:
109
              (B) LOCATION: 39
111
              (D) OTHER INFORMATION: amidated Ser (Serineamide)
112
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
114
116 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
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117 1
119 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
             20
120
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121 Ser Gly Ala Pro Pro Pro Ser
122
            35
126 (2) INFORMATION FOR SEQ ID NO: 3:
         (i) SEQUENCE CHARACTERISTICS:
128
130
              (A) LENGTH: 30 amino acids
131
               (B) TYPE: amino acid
              (C) STRANDEDNESS: single
132
              (D) TOPOLOGY: linear
133
        (ii) MOLECULE TYPE: peptide
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        (ix) FEATURE:
137
               (B) LOCATION: 30
139
140
              (D) OTHER INFORMATION: amidated Arg (Arginineamide)
142
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
144 His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly 145 1 5 10 15
147 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg
148 20 25 30
152 (2) INFORMATION FOR SEQ ID NO: 4:
         (i) SEQUENCE CHARACTERISTICS:
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              (A) LENGTH: 31 amino acids
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157
               (B) TYPE: amino acid
              (C) STRANDEDNESS: single
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              (D) TOPOLOGY: linear
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161
        (ii) MOLECULE TYPE: peptide
        (ix) FEATURE:
163
              (B) LOCATION: 31
165
166
              (D) OTHER INFORMATION: amidated Ser (Serineamide)
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
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170 Asp Leu Ser Lys Gly Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu

RAW SEQUENCE LISTING

PATENT APPLICATION: US/08/908,867B

168

RAW SEQUENCE LISTING DATE: 05/30/2000 PATENT APPLICATION: US/08/908,867B TIME: 18:43:47

Input Set : A:\Pto.amc

Output Set: N:\CRF3\05262000\H908867B.raw

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15
171 1
                                         10
173 Trp Leu Lys Asn Gly Gly Pro Ser Ser Gly Ala Pro Pro Pro Ser
174
                20
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178 (2) INFORMATION FOR SEQ ID NO: 5:
         (i) SEQUENCE CHARACTERISTICS:
182
              (A) LENGTH: 39 amino acids
              (B) TYPE: amino acid
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              (C) STRANDEDNESS: single
184
              (D) TOPOLOGY: linear
185
187
        (ii) MOLECULE TYPE: peptide
189
        (ix) FEATURE:
              (B) LOCATION: 39
191
              (D) OTHER INFORMATION: amidated Ser (Serineamide)
192
194
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
196 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
                                        10
199 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
              20
200
                                    25
202 Ser Gly Ala Pro Pro Pro Ser
203 35
207 (2) INFORMATION FOR SEQ ID NO: 6:
         (i) SEQUENCE CHARACTERISTICS:
213
              (A) LENGTH: 39 amino acids
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216
              (B) TYPE: amino acid
217
              (C) STRANDEDNESS: single
218
              (D) TOPOLOGY: linear
220
        (ii) MOLECULE TYPE: peptide
222
        (ix) FEATURE:
224
              (B) LOCATION: 39
              (D) OTHER INFORMATION: amidated Ser (Serineamide)
225
227
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
229 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
230 1
                                        10
                                                             15
232 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
233
               20
                                     25
235 Ser Gly Ala Pro Pro Pro Ser
236
           . 35
240
    (2) INFORMATION FOR SEQ ID NO: 7:
242
        (i) SEQUENCE CHARACTERISTICS:
              (A) LENGTH: 39 amino acids
              (B) TYPE: amino acid
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              (C) STRANDEDNESS: single
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              (D) TOPOLOGY: linear
247
        (ii) MOLECULE TYPE: peptide
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        (ix) FEATURE:
249
251
              (B) LOCATION: 39
              (D) OTHER INFORMATION: amidated Ser (Serineamide)
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256
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
258 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
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DATE: 05/30/2000 RAW SEQUENCE LISTING PATENT APPLICATION: US/08/908,867B TIME: 18:43:47 Input Set : A:\Pto.amc Output Set: N:\CRF3\05262000\H908867B.raw 10 259 1 261 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser 20 25 264 Ser Gly Ala Pro Pro Pro Ser 35 267 (2) INFORMATION FOR SEQ ID NO: 8: (i) SEQUENCE CHARACTERISTICS: 269 271 (A) LENGTH: 39 amino acids (B) TYPE: amino acid 272 (C) STRANDEDNESS: single (D) TOPOLOGY: linear 273 274 (ii) MOLECULE TYPE: peptide 276 (ix) FEATURE: 278 280 (B) LOCATION: 39 281 (D) OTHER INFORMATION: amidated Ser (Serineamide) 283 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8: 285 Tyr Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu 10

288 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser 289 25 30 291 Ser Gly Ala Pro Pro Pro Ser 292 35 296 (2) INFORMATION FOR SEQ ID NO: 9: 298 (i) SEQUENCE CHARACTERISTICS: 300 (A) LENGTH: 39 amino acids 301 (B) TYPE: amino acid 302 (C) STRANDEDNESS: single 303 (D) TOPOLOGY: linear (ii) MOLECULE TYPE: peptide (ix) FEATURE: 307 (B) LOCATION: 39 309 (D) OTHER INFORMATION: amidated Tyr (Tyrosinamide) 310 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9: 312 314 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu 315 1 10 15 317 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser 318 25 30 320 Ser Gly Ala Pro Pro Pro Tyr 321 35 325 (2) INFORMATION FOR SEQ ID NO: 10: 327 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 amino acids 329 330 (B) TYPE: amino acid 331 (C) STRANDEDNESS: single (D) TOPOLOGY: linear 332 (ii) MOLECULE TYPE: peptide 334 (ix) FEATURE: 336 (B) LOCATION: 39 338 339 (D) OTHER INFORMATION: amidated Ser (Serineamide)

DATE: 05/30/2000

PATENT APPLICATION: US/08/908,867B TIME: 18:43:47 Input Set : A:\Pto.amc Output Set: N:\CRF3\05262000\H908867B.raw (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10: 341 343 His Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu 5 " 10 15 346 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser 20 25 349 Ser Gly Ala Pro Pro Pro Ser 35 354 (2) INFORMATION FOR SEQ ID NO: 11: (i) SEQUENCE CHARACTERISTICS: 356 (A) LENGTH: 39 amino acids 358 (B) TYPE: amino acid 359 (C) STRANDEDNESS: single (D) TOPOLOGY: linear 360 361 363 (ii) MOLECULE TYPE: peptide 365 (ix) FEATURE: 370 (B) LOCATION: 39 371 (D) OTHER INFORMATION: amidated Ser (Serineamide) (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11: 375 His Gly Glu Gly Thr Ala Thr Ser Asp Leu Ser Lys Gln Met Glu Glu 5 10 378 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser 379 20 25 30 381 Ser Gly Ala Pro Pro Pro Ser 382 35 386 (2) INFORMATION FOR SEQ ID NO: 12: 388 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 amino acids 391 (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 393 (ii) MOLECULE TYPE: peptide 395 (ix) FEATURE: 397 (B) LOCATION: 39 399 (D) OTHER INFORMATION: amidated Ser (Serineamide) 400 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12: 402 404 His Gly Glu Gly Thr Phe Ser Ser Asp Leu Ser Lys Gln Met Glu Glu 405 1 5 10' 15 407 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser 408 20 25 30 408 20 25 410 Ser Gly Ala Pro Pro Pro Ser 411 35 411 415 (2) INFORMATION FOR SEQ ID NO: 13: (i) SEQUENCE CHARACTERISTICS: 417 (A) LENGTH: 39 amino acids 419 (B) TYPE: amino acid
(C) STRANDEDNESS: single 420 421

RAW SEQUENCE LISTING

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

422

424 426

	Number: 08/908 867B ENTERED										
]	Changed the margins in cases where the sequence text was "wrapped" down to the next line.										
	Edited a format error in the Current Application Data section, specifically:										
	Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other										
	Added the mandatory heading and subheadings for "Current Application Data".										
	Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.										
	Changed the spelling of a mandatory field (the headings or subheadings), specifically:										
	Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:										
	Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:										
	Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.										
	Inserted colons after headings/subheadings. Headings edited included:										
	Deleted extra, invalid, headings used by an applicant, specifically:										
	Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file ☐ page numbers throughout text; ☐ other invalid text, such as										
	Inserted mandatory headings, specifically:										
	Corrected an obvious error in the response, specifically:										
	Edited identifiers where upper case is used but lower case is required, or vice versa.										
	Corrected an error in the Number of Sequences field, specifically:										
	A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.										
	Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:										
	Other: Seg 35-aligned a. a. rumlering										

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

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PATENT APPLICATION: US/08/908,867B
                                                                 TIME: 18:41:48
                     Input Set : A:\227166.txt
                     Output Set: N:\CRF3\05262000\H908867B.raw
      4 (1) GENERAL INFORMATION:
             (i) APPLICANT: YOUNG, ANDREW A.
                             GEDULIN, BRONISLAVA
                             BEELEY, NIGEL ROBERT ARNOLD
     10
                             PRICKETT, KATHRYN S.
                                                                               Does Not Comply
            (ii) TITLE OF INVENTION: METHODS FOR REGULATING
                                                                          Corrected Diskette Needed
     13
                                      GASTROINTESTINAL MOTIITY
     14
           (iii) NUMBER OF SEQUENCES: 39
     17
            (iv) CORRESPONDENCE ADDRESS:
     20
     22
                  (A) ADDRESSEE: LYON & LYON
                  (B) STREET: 633 WEST FIFTH STREET
     23
                  (C) CITY: LOS ANGELES
                  (D) STATE: CALIFORNIA
                  (E) COUNTRY: USA
     26
                  (F) ZIP: 90017
     27
             (v) COMPUTER READABLE FORM:
     30
                  (A) MEDIUM TYPE: Floppy disk
     32
                  (B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
     33
     34
                  (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
     35
C--> 38
            (vi) CURRENT APPLICATION DATA:
C--> 40
                  (A) APPLICATION NUMBER: US/08/908,867B
                  (B) FILING DATE: 08-Aug-1997
C--> 41
                   (C) CLASSIFICATION: Pending
     49
           (vii) PRIOR APPLICATION DATA:
     45
                   (A) APPLICATION NUMBER: 08/694,954
     47
     48
                   (B) FILING DATE: 08-AUGUST-1996
          (viii) ATTORNEY/AGENT INFORMATION:
                   (A) NAME: BERKMAN, CHARLES S
                  (B) REGISTRATION NUMBER: 38,077
     58
                   (C) REFERENCE/DOCKET NUMBER: 227/166
     61
            (ix) TELECOMMUNICATION INFORMATION:
                  (A) TELEPHONE: 619/552-2200
     63
                   (B) TELEFAX: 213/955-0440
                  (C) TELEX: 67-3510
ERRORED SEQUENCES
     1106 (2) INFORMATION FOR SEQ ID NO: 35
     1108
               (i) SEQUENCE CHARACTERISTICS:
                    (A) LENGTH: 39 amino acids
     1110
                    (B) TYPE: amino acid
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                     (C) STRANDEDNESS: single
     1112
              (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: peptide
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              (ix) FEATURE:
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RAW SEQUENCE LISTING

DATE: 05/30/2000

RAW SEQUENCE LISTING DATE: 05/30/2000 PATENT APPLICATION: US/08/908,867B TIME: 18:41:48

Input Set : A:\227166.txt
Output Set: N:\CRF3\05262000\H908867B.raw

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1122 (B) LOCATION: 39
1123 (D) OTHER INFORMATION: amidated Ser (Serineamide)
1125 (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 35:
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1128 1 5 10 15
1130 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Ala Ser
E--> 1131 20 25 2030
1133 Ser Gly Ala Ala Ala Ala Ser
1134 35
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VERIFICATION SUMMARY

DATE: 05/30/2000

PATENT APPLICATION: US/08/908,867B

TIME: 18:41:49

Input Set : A:\227166.txt

Output Set: N:\CRF3\05262000\H908867B.raw

L:1131	M:332	E:	(32)	Inva	alid	l/Miss:	ing Am:	ino .	Acid	Numbering,	SEQ	ID:35
L:1229	M:341	W:	(46.)	"n"	or	"Xaa"	used,	for	SEQ	ID#:38		
L:1232	M:341	W:	(46)	"n"	or	"Xaa"	used,	for	SEQ	ID#:38		
L:1235	M:341	W:	(46)	"n"	or	"Xaa"	used,	for	SEQ	ID#:38		
L:1282	M:341	W:	(46)	"n"	or	"Xaa"	used,	for	SEQ	ID#:39		
L:1285	M:341	W:	(46)	"n"	or	"Xaa"	used,	for	SEQ	ID#:39		
L:1288	M:341	W:	(46)	"n"	or	"Xaa"	used,	for	SEQ	ID#:39		

STATISTICS SUMMARY

DATE: 05/30/2000

PATENT APPLICATION: US/08/908,867B

TIME: 18:41:49

Input Set : A:\227166.txt

Output Set: N:\CRF3\05262000\H908867B.raw

Application Serial Number: US/08/908,867

Alpha or Numeric: Alpha Application Class:

Application File Date: 08-08-1997

Art Unit:

Software Application: PatentIn Total Number of Sequences: 39 Number of Errors: 1 Number of Warnings: 6 Number of Corrections: 0

MESSAGE SUMMARY

332 E: 1 ((32) Invalid/Missing Amino Acid Numbering) 341 W: 6 ((46) "n" or "Xaa" used)